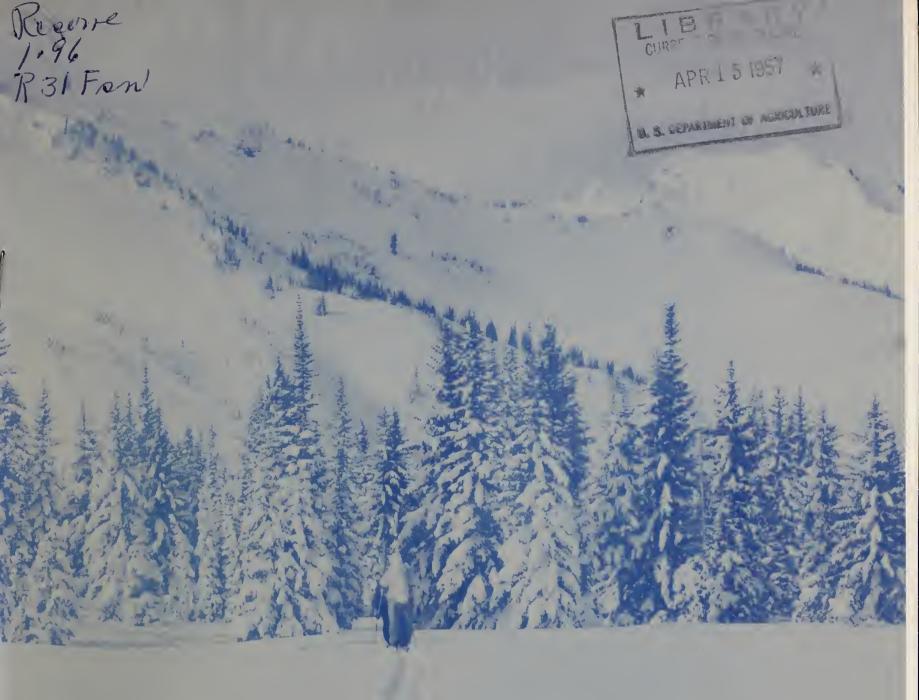
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Do not assume content reflects current scientific knowledge, policies, or practices.





FEDERAL - STATE COOPERATIVE SNOW SURVEYS and WATER SUPPLY FORECASTS for

NEVADA

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

NEVADA STATE ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and local organizations listed on the last page of this report.

APR. 1, 1957

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

Snow surveys in the west are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its cooperators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section Soil Conservation Service 209 S. W. 5th Avenue Portland 4, Oregon

BASIN REPORTS:

Colorado, Rio Grande, and Platte-Arkansas River Basins	Issued monthly February through May by SCS and Colorado Experiment Station, Fort Collins, Colorado.*
Columbia River Basin	Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*
Upper Missouri River Basin	Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman Montana.*
West-Wide Water Supply Outlook	Issued April 1 by Soil Conservation Service and Cooperators, Portland, Oregon.

STATE REPORTS:

Arizona	Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*
Nevada	Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*
Oregon	Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*
Utah	Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*
Washington	Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*
Wyoming	Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*

^{*}Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Building, Victoria, B. C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacremento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

FEDERAL - STATE COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECASTS

For

NEVADA

Report Prepared
By

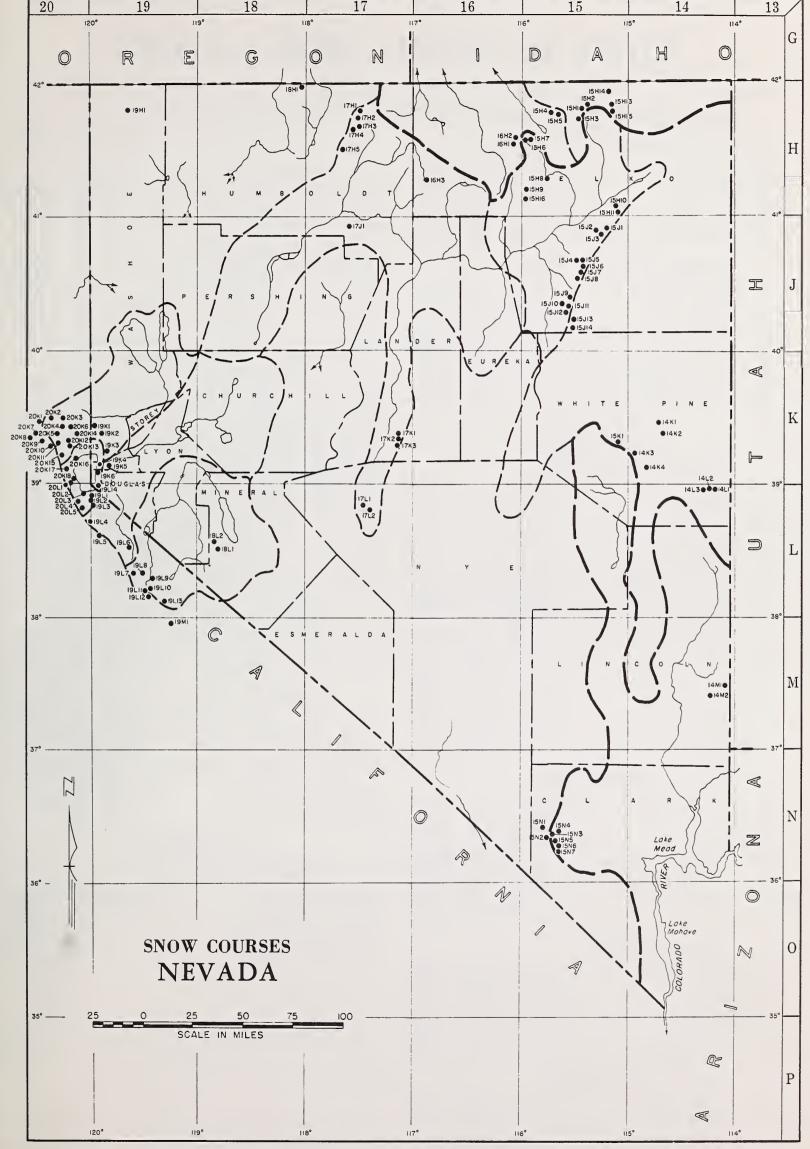
Norman S. Hall, Hydraulic Engineer

Soil Conservation Service 1485 Wells Avenue Reno, Nevada

Issued by

George Hardman State Conservationist Soil Conservation Service Reno, Nevada Hugh A. Shamberger Nevada State Engineer Carson City, Nevada





INDEX TO NEVADA SNOW COURSES

NUMBER NAME SEC. TWP.RGE. ELEV.	NUMBER NAME SEC. TWP.RGE. ELEV.
SNAKE RIVER BASIN	NORTHERN GREAT BASIN
SNAKE RIVER	19H 1 BALD MOUNTAIN 17 45N 21E 6720 18H 1 DISASTER PEAK 8 47N 34E 6500
15H 1 BEAR CREEK 31 46N 58E 7800	LAKE TAHOE
15H 2 FOX CREEK 33 46N 58E 6800 15H 3 76 CREEK 6 44N 58E 7100 15H 5* GOLD CREEK 31 45N 56E 6600	20L 4 (CAL.) LAKE LUCILLE 28 12N 17E 8400
15H 4* BIG BEND 30 45N 56E 6700 15H13 GOAT CREEK 31 46N 60E 8800	20L 1 (Cal.) RUBICON #1 6 13N 17E 8100 19L 3 (Cal.) HAGANS MEADOW 36 12N 18E 8000 19L 2 (Cal.) Freel Bench 36 12N 18E 7300
15H14 POLE CREEK RANGER STATION 13 46N 59E 8330 15H15 HUMMINGBIRD SPRINGS 6 45N 60E 8945	19L 2 (CAL.) FREEL BENCH 36 12N 18E 7300 20K17 (CAL.) WARD CREEK 21 15N 16E 7000 19L 1 (CAL.) UPPER TRUCKEE 21 12N 18E 6400
OWYHEE RIVER	20K16 (CAL.) TAHOE CITY 6 15N 17E 6250 20L 2 (CAL.) RUBICON #2 6 13N 17E 7500
17H 2* LOWER BUCKSKIN 25 45N 39E 6700	20K18 (CAL.) RUBICON#3 32 14N 17E 6700 20L 3 (CAL.) RICHARDSONS #2 6 12N 18E 6500
17H 1* UPPER BUCKSKIN 11 45N 39E 7200 17H 3* MARTIN CREEK 18 44N 40E 6700	20L 5 (CAL.) ECHO SUMMIT 6 11N 18E 7500 19K 4 MARLETTE LAKE 13 15N 18E 8000
17H 4* GRANITE PEAK 22 44N 39E 7800 15H 5 GOLD CREEK 31 45N 56E 6600 15H 4 BIG BEND 30 45N 56E 6700	19L14 DAGGETTS PASS 19 13N 19E 7350 19K 6 GLENBROOK #2 13 14N 18E 6900 19K 2* MT. ROSE 7 17N 19E 9000
15H 7* FRY CANYON 31 43N 54E 6700 15H 6* RODEO FLAT 36 43N 53E 6800	
16H 1 LOWER JACK CREEK 18 42N 53E 6800 16H 2 Upper Jack Creek 9 42N 53E 7250	TRUCKEE RIVER 20K 5 (Cal.) Independence Lake 9 18N 15E 8450
15H 8* TREMEWAN RANCH 9 39N 55E 5700 15H 9* TAYLOR CANYON 35 39N 53E 6200	20K 1* (CAL.) WEBBER PEAK 30 19N 14E 8000 20K10* (CAL.) DONNER SUMMIT 25 17N 14E 6900
INMEDIOD	20K17* (CAL.) WARD CREEK 21 15N 16E 7000 20K 2 (CAL.) WEBBER LAKE 20 19N 14E 7000
INTERIOR	20K 6 (CAL.) SAGE HEN CREEK 7 18N 16E 6500 20K16* (CAL.) TAHOE CITY 6 15N 17E 6250 20K13 (CAL.) TRUCKEE #2 22 17N 16E 6400
UPPER HUMBOLDT RIVER	20K13 (CAL.) TRUCKEE #2 22 17N 16E 6400 20K 3 (CAL.) INDEPENDENCE CREEK 14 19N 15E 6500 20K14 (CAL.) BOCA #2 28 18N 17E 5900
15H 1* BEAR CREEK 31 46N 58E 7800 15H 2* FOX CREEK 33 46N 58E 6800 15H 3* 76 CREEK 6 44N 58E 7100	20K 8* (CAL.) FURNACE FLAT 10 17N 13E 6600 20K 7* (CAL.) FORDYCE LAKE 34 18N 13E 6500
15H 3* 76 CREEK 6 44N 58E 7100 15H 5* GOLD CREEK 31 45N 56E 6600 15H 4* BIG BEND 30 45N 56E 6700	20K 9* (CAL.) S ODA SPRINGS 23 17N 14E 6750 20K 4 (CAL.) INDEPENDENCE CAMP 34 19N 15E 7000
15H 7 FRY CANYON 31 43N 54E 6700 15H 6 RODEO FLAT 36 43N 53E 6800	19K 2 MT. ROSE 7 17N 19E 9000 20K12 (CAL.) TRUCKEE RANGER STA.10 17N 16E 6000
16H 1* LOWER JACK CREEK 18 42N 53E 6800 16H 2* Upper Jack Creek 9 42N 53E 7250	20K11 (CAL.) DONNER LAKE 14 17N 15E 5950 19K 1 BIG MEADOWS 15 18N 18E 8800 19K 3 LITTLE VALLEY 17 16N 19E 6300
15H 8 TREMEWAN RANCH 9 39N 55E 5700 15H 9 TAYLOR CANYON 35 39N 53E 6200 15H10 LOWER TROUT CREEK 28 37N 61E 6900	20K15 (CAL.) SOUAW VALLEY 6 15N 16E 7500
15H10 LOWER TROUT CREEK 28 37N 61E 6900 15H11 UPPER TROUT CREEK 4 36N 61E 8500 15J 1 DORSEY BASIN 28 35N 60E 8100	CARSON RIVER
15J 2 RYAN RANCH 1 34N 59E 5800 15J 3 DRY CREEK 5 34N 60E 6500	19L 4 (CAL.) CARSON PASS 22 10N 18E 8600 19L 6 (CAL.) POISON FLAT 25 8N 21E 7900
15J 4 LAMOILLE #1 15 32N 58E 7100 15J 5 LAMOILLE #2 14 32N 58E 7300	19L 5 (CAL.) BLUE LAKES 30 9N 19E 8000 19K 5 CLEAR CREEK 16 14N 19E 7300
15J 6 LAMOILLE #3 24 32N 58E 7700 15J 7 LAMOILLE #4 19 32N 59E 8000 15J 8 LAMOILLE #5 31 32N 59E 8700	WALKER RIVER
15J 8 LAMOILLE #5 31 32N 59E 8700 -15J 9 GREEN MOUNTAIN 23 29N 57E 8000 15J10 HARRISON PASS #1 9 28N 57E 6600	19L12 (CAL.) CENTER MOUNTAIN 4 3N 23E 9400 19L 7 (CAL.) SONORA PASS 1 5N 21E 8800
15J11 HARRISON PASS #2 16 28N 57E 7400 15J12 CORRAL CANYON 27 28N 57E 8500	19L11 (CAL.) BUCKEYE FORKS 20 4N 23E 8500 19L13 (CAL.) VIRGINA LAKES 5 2N 25E 9500
15H16 SUSIE CREEK 3 36N 54E 6175	19L 9 (CAL.) WILLOW FLAT 21 5N 23E 8260 19L10 (CAL.) BUCKEYE ROUGHS 15 4N 23E 7900
LOWER HUMBOLDT RIVER	19L 8 (CAL.) LEAVITT MEADOWS 4 5N 22E 7200 19M 1* (CAL.) TIOGA PASS 30 1N 25E 9900 18L 1 LAPON MEADOW 36 8N 28E 9000
17H 2 LOWER BUCKSKIN 25 45N 39E 6700 17H 1 UPPER BUCKSKIN 11 45N 39E 7200 17H 3 MARTIN CREEK 18 44N 40E 6700	18L 2 MT. GRANT 23 8N 28E 9000
17H 4 GRANITE PEAK 22 44N 39E 7800 17H 5 LAMANCE CREEK 13 42N 38E 6000	COLORADO
16H 3 MIDAS 18 39N 46E 7200 17K 1 BIG CREEK CAMP GROUND 10 17N 43E 6600	
17K 2 BIG CREEK MINE 23 17N 43E 7600 17K 3 Upper BIG Creek 26 17N 43E 8000	LOWER COLORADO RIVER 15N 6 RAINBOW CANYON 31 195 57E 7800
17L 1 LOWER CORRAL 12 11N 40E 7500 17L 2 UPPER CORRAL 20 11N 41E 8500 17J 1 GOLCONDA 22 35N 39E 6000	15N 5 KYLE CANYON 26 195 56E 8200 15N 4 LEE CANYON #1 10 195 56E 8300
	15N 3 LEE CANYON #2 9 19S 56E 9000 15N 7 RAINBOW CANYON #2 6 20S 57E 8100
EASTERN NEVADA 15J13 CAVE CREEK 25 27N 57E 7500	14M 1 MATHEW CANYON 11 5S 70E 6000 14M 2 PINE CANYON 11 6S 69E 6200
15J13 CAVE CREEK 25 27N 57E 7500 15J14 HAGER CANYON 34 27N 57E 8000 14K 3 MURRAY SUMMIT 25 16N 62E 7250	
14L 1 BAKER #1 29 13N 69E 7950 14L 2 BAKER #2 30 13N 69E 9950	
14L 3 BAKER #3 25 13N 68E 9250 14K 2 BERRY CREEK 26 17N 65E 9100	
14K 1 BIRD CREEK 34 19N 65E 7500 15K 1 ROBINSON SUMMIT 34 18N 61E 7600 14K 4 Waro Mountain 25 15N 62E 7875	LOCATED ON ADJACENT WATERSHED
CENTRAL GREAT BASIN	

9000 8500

15N 2 CLARK CANYON 8 19S 56E 15N 1 TROUGH SPRINGS 23 18S 55E

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WATER SUPPLY OUTLOOK FOR MEVADA

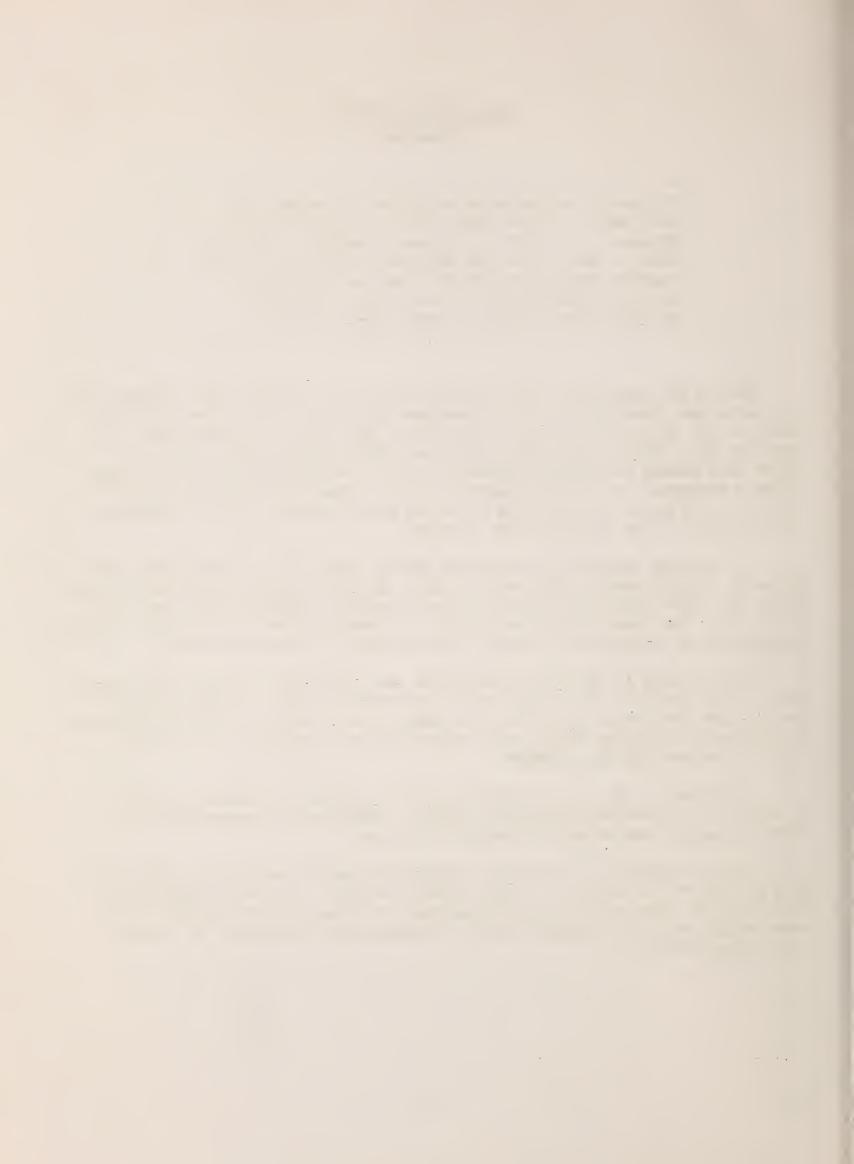
During the past month, snow stored water has increased very favorably in the Santa Rosa Mountains north of Paradise Valley near Winnemucca. Martin Creek is the only stream in the State being forecasted at normal flow. In northern Elko County, the Owyhee River and Salmon Falls Creek, which flow north into Idaho, are being forecasted from 75 to 88 percent of the 15 year 1938-52 average. In the Upper Humboldt River, Lamoille Creek is expected to flow at 87 percent of average while the main Humboldt River at Palisade is expected to flow 75 percent of average.

The Truckee Basin Water Committee reports that all its reservoirs are expected to fill except Independence Lake. On April 1, the elevation of Lake Tahoe was 6228.0 and is expected to reach capacity. Releases will keep the level below the legal maximum of 6229.1. Because of the full reservoir system, adequate water supplies are assured for the coming irrigation season.

Snow surveys in the Spring Mountains near Las Vegas indicate snow stored water to be about 40 percent of the 15 year average which is only slightly better than last year. In White Pine County, low elevation snow is gone and, in general, irrigation season water supplies can be expected to be about 60 to 65 percent of the average.

According to the U. S. Geological Survey, winter streamflow on major rivers in the State has been about normal. Ground water measurements, in most instances, are below last year's elevation.

April 1 storage in 7 important reservoirs was 78 percent of capacity or 120 percent of the April 1 15 year 1938-52 average. Rye Patch Reservoir on the Humboldt River stored 63,000 acre feet or 63 percent of average. Other reservoirs are full or nearly full and releases are being made to cushion the spring runoff.



NEVADA STREAMFLOW FORECASTS - APRIL 1, 1957

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature during the forecast period will be near average. Appreciable deviations from normal of temperature and/or precipitation during the forecast period will correspondingly modify these forecasts.

	April-July, Streamflow Thousands Acre Feet				
		15-Yr.	1957 %	17	3 7 00
Forecast Stream	Forecast 1957	Av. 1938-52	as of 15-Yr.Av.	The second second second	ed Runoff 1955
ronecaso boream	<u> </u>	1930-72	1)-11 · Av ·	1970	±377
Owyhee River nr. Gold Creek, Nev. 1	21	28	75	23	5
Ownhee River nr. Owyhee, Nev. 1	70	88	80	75	29
Lamoille Creek nr. Lamoille, Nev.	26	30	87	32	16
So. Fk. Hymboldt nr. Elko, Nev.	65	84	77	88	28
Humboldt River at Palisade, Nev.	187	249	75	249	47
Martin Creek nr. Paradise, Nev.	18	18	100	17	7
East Walker nr. Bridgeport, Cal.2	37	73	51	126	27
West Walker ar Coleville, Cal.	111	160	69	236	110
East Carson nr. Gardnerville, Nev.	160	195	82	281	122
West Carson at Woodfords, Cal.	45	55	82	84	39
Carson River nr. Carson City	145	192	76	315	91
Carson River at Ft. Churchill	130	189	69	319	76
Little Truckee River above Boca, California5	68	80	85	135	49
Truckee River at Farad, Cal. 3,5	202	279	72	404	162
Lake Tahoe Rise 4,5	1.2	1.6	7.5	2.0	0.9
Salmon Falls Creek nr. San Jacinto, Nevada	80 * 77 **	9 2 88	87 88	90 87	1 ¹ 0

^{1.} Corrected for storage in Wild Horse Reservoir.

^{2.} For period April through August corrected for storage in Bridgeport Reservoir

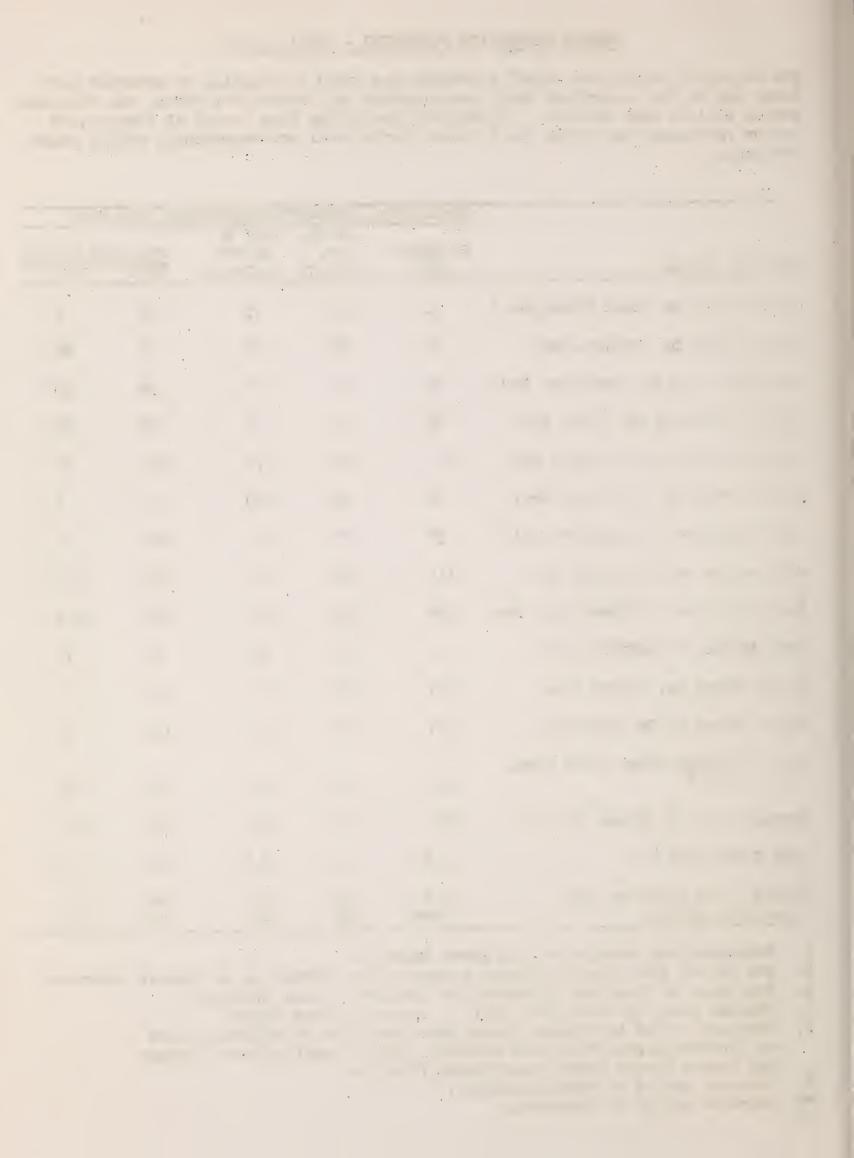
^{3.} Exclusive of Tahoe and corrected for storage in Boca Reservoir

^{4.} Maximum rise, in feet, from April 1, assuming gates closed

^{5.} Forecast issued by Truckee Basin Water Committee which is composed of Truckee-Carson Irrigation District, Sierra Pacific Power Company and Washoe County Water Conservation District.

^{*} Forecast period of March-September.

^{**} Forecast period of March-July.

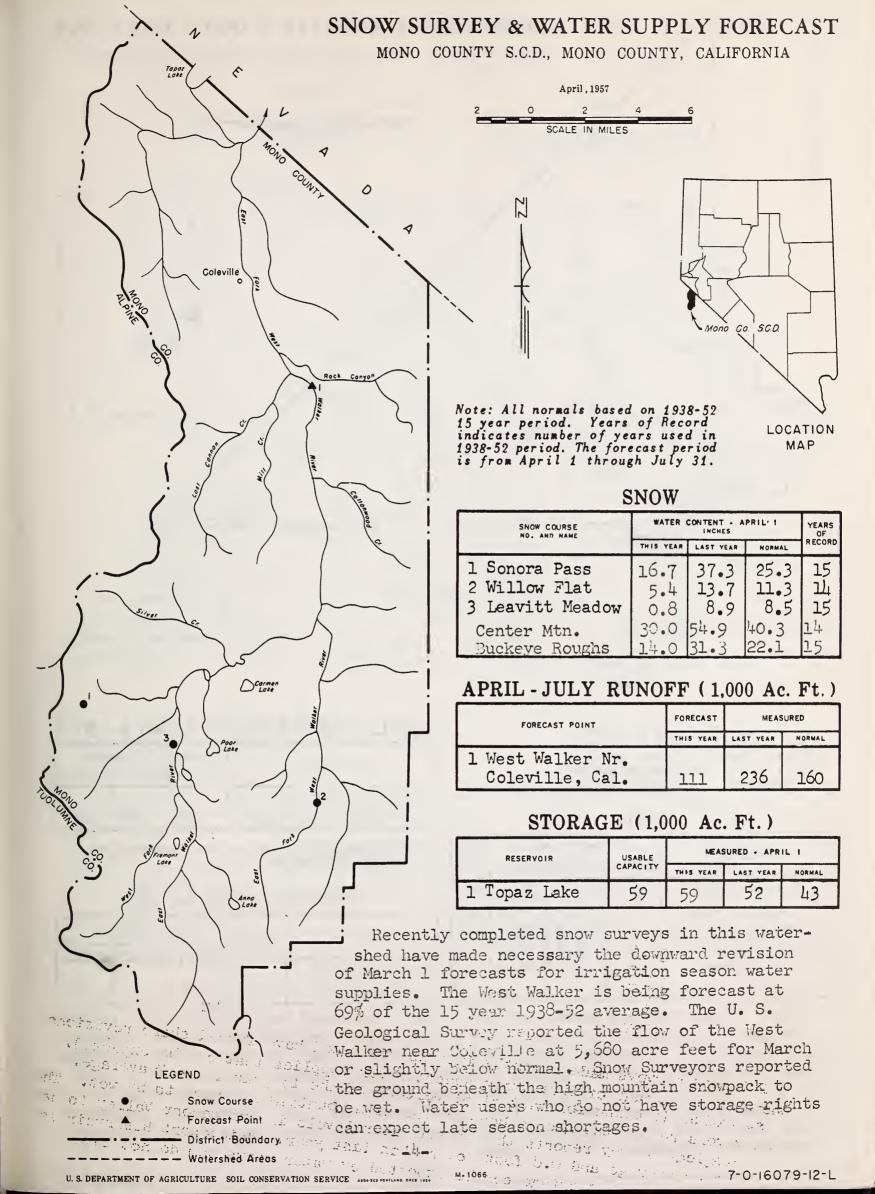


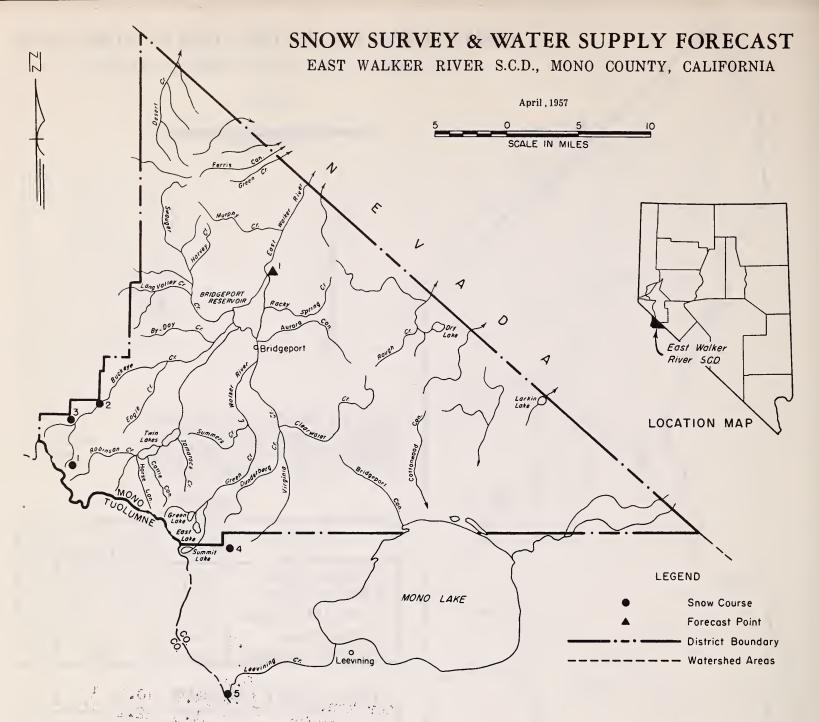
STATUS OF RESERVOIR STORAGE
APRIL 1, 1957

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BASIN AND STREAM	RESERVOIR	(Thous. A.F.)	1957	1956	1955	15-yr. Ave. 1938-52
Owyhee	Wild Horse	33	30	10	3	14
Lower Humboldt	Rye Patch	178	63	40	1.1	100
Colorado	Mohave	1,810	1,690	1,718	1,755	New Reservoir*
Colorado	Mead	27,217	11,502	10,728	11,558	18,153
Tahoe	Tahoe	732	598	481	361	446
Truckee	Boca	41	22	1.1	1	13
Carson	Lahontan	286	252	197	191	233
West Walker	Topaz	59	59	52	22	71,74
East Walker	Bridgeport	142	42	35	21	35

^{*} Storage began in 1950. The 1950-56 average is 1,463,000 A.F.







Note: All normals based on 1938-52 15 year period. Years of Record indicates number of years used in 1938-52 period. The forecast period is from April 1 through July 31.

SNOW

SNOW COURSE	WATER (YEAR'S OF		
	THIS YEAR	LAST YEAR	NORMAL	RECORD
1 Center Mtn. 2 Buckeye Roughs 3 Buckeye Forks 4 Virgina Lakes 5 Tioga Pass	14.0 17.7 13.3	28.8	40.3 22.1 21.2 18.3 26.3	山 山 山 6 13
1 Tioga Tabs	TO 1	٠٠٠ ١٠	20.5	رــ

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

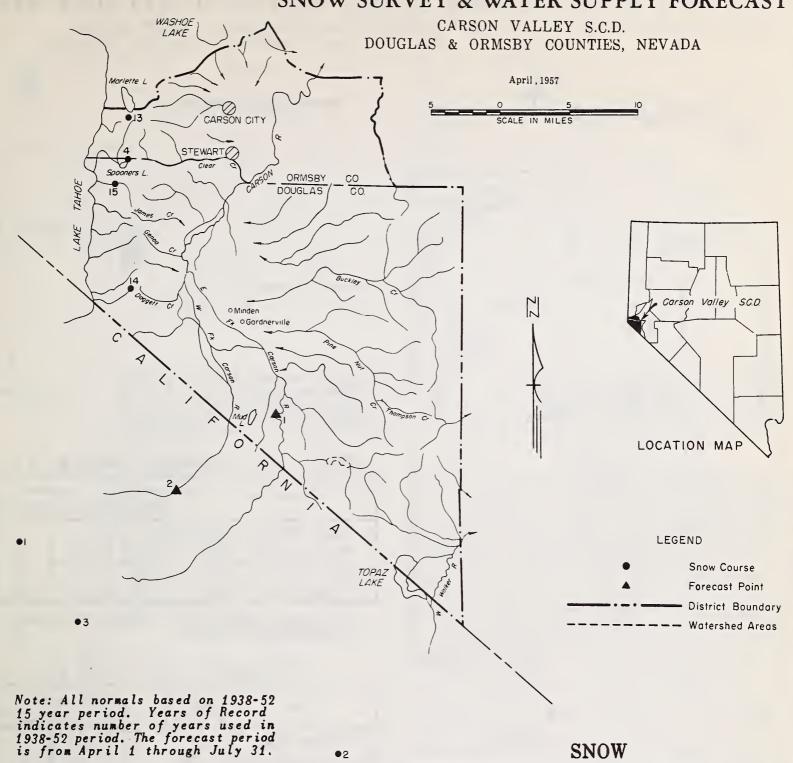
FORECAST POINT	FORECAST	MEAS	URED
	THIS YEAR	LAST YEAR	NORMAL
1 East Walker Nr. *			
Bridgeport, Cal.	37	126	73

* April-August forecast period. Corrected for change in Bridgeport Reservoir.

STORAGE (1,000 Ac. Ft.)

RESERVOIR			IL 1	
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL
l Bridgeport Reservoir	42	42	35	35

April 1 snow surveys made recently in this watershed have forced sharp revisions downward in the amount of irrigation season water supplies that can be expected. The East Walker is being forecast at 51 percent of the 15 year 1938-52 average. Snow Surveyors report the ground beneath the high mountain snowpack to be wet. The U. S. Geological Survey reports the ground water levels in Bridgeport Valley to be 0.6 foot below average and 0.8 foot lower than last year. Bridgeport Reservoir is full but a late season shortage can be expected by water users who do not have storage to supplement natural flow.



APRIL - IIII.Y RUNOFF (1000 Ac Ft)

ATRID-JODI RONO	rr (1,	UUU AC	. P 6. /
FORECAST POINT	FORECAST MEASU		URED
	THIS YEAR	LAST YEAR	NORMAL
1 East Carson Nr. Gardnerville, Nev.	160	281	195
2 West Carson at Woodfords, Cal.	145	84	55
3 Carson River Nr. Carson City, Nev.	1/+5	315	192

8	TAOM			
SNOW COURSE	WATER	YEARS OF		
	THIS YEAR	LAST YEAR	NORMAL	RECORD
1 Carson Pass 2 Poison Flat 3 Blue Lakes 4 Clear Creek 13 Marlette Lake 14 Daggett Pass 15 Glenbrook #2	35.2 13.6 27.8 3.1 17.6 +.1 9.4		37.6 16.5 39.8 18.1 25.2 14.1 15.5	15 11 15 14 15 15 11

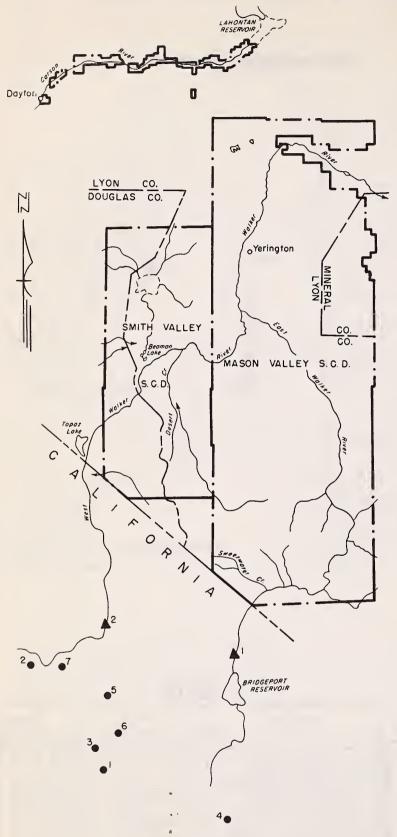
Carson River Nr. Ft. Churchill, Nev. 130 319 189

Forecasts on this watershed range from 32 percent of 15 year 1938-52 average on the East and West Carson to 76 percent of average for the Carson near Carson City and 69 percent for the Carson near Fort Churchill. Snow surveyors report the ground to be wet beneath the high mountain snowpack. It is anticipated that the East Carson River will drop below 200 cubic feet per second during the second week of July. Late season shortages can be expected for those who do not have reservoired water.

M-1063

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SMITH VALLEY & MASON VALLEY S.C.D's.
DOUGLAS, LYON & MINERAL COUNTIES, NEVADA

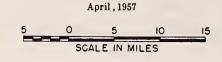


SNOW COURSE	WATER	YEARS OF		
	THIS YEAR	LAST YEAR	NORMAL	RECORD
1 Center Mtn.	30.0	54.9	40.3	14
2 Sonora Pass	16.7	37.3	25.3	15
3 Buckeye Forks	17.7	29.8	21.2	14
4 Virgina Lakes	13.3	28.8	18.3	6
5 Willow Flat	5.4	13.7	11.3	74
6 Buckeye Roughs	14.0	31.3	22.1	15

0.8

8.9

SNOW





Note: All normals based on 1938-52 15 year period. Years of Record indicates number of years used in 1938-52 period. The forecast period is from April 1 through July 31.

APRIL - JULY RUNOFF (1.000 Ac. Ft.)

LOCATION MAP

FORECAST POINT	FORECAST	MEAS	URED
	THIS YEAR	LAST YEAR	NORMAL
l East Walker Nr. * Bridgeport, Cal.	37	126	73
2 West Walker Nr. Coleville, Cal.	111	236	160

* Apr.-Aug. runoff period corrected for change in Bridgeport Reservoir.

STORAGE (1,000 Ac. Ft.)

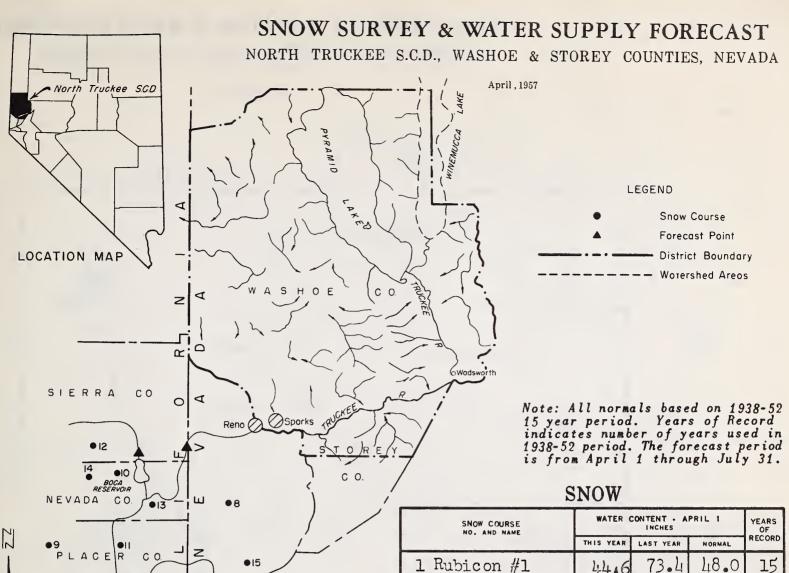
RESERVOIR	USABLE	MEASURED - APRIL 1		
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL
1 Topaz Lake 2 Bridgeport R.	59 42	59 42	52 35	43 35

Recently completed snow surveys in this watershed have revised last months forecasts downward. The East Walker is forecast at 51% of the 15 year 1938-52 average. The West Walker is being forecast at 68% of the 15 year average. Topaz Lake and Bridgeport Reservoir are both at capacity. Snow Surveyors report the ground beneath the mountain snowpack to be wet and the snow line is generally above 7000 feet. The U. S. Geological Survey reports ground water levels in Bridgeport Valley to be 0.6 foot below last year and 0.8 foot lower than last year at this time.

15

8.5

7 Leavitt Meadows



APRIL - JULY RUNOFF (1,000 Ac. Ft.)

SCALE IN MILES

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ELDORADO

FORECAST POINT	FORECAST	MEAS	URED
E SUMER POR SHOULD NAVE	THIS YEAR	LAST YEAR	NORMAL
l Trúckée River at Farad, Calif. 1/.	202	404	279
2 Little Truckee above Boca, Calif.	68	135	80
3 Rise of Lake Tahoe. 2/. (Feet)	1.2	2.0	1.59

1/ Exclusive of Tahoe & corrected for Boca Res.

2/ Max. rise from Apr. 1, assuming gates closed.

SNOW COURSE	WATER	CONTENT - A	PRIL 1	YEARS OF
	THIS YEAR	LAST YEAR	NORMAL	RECORD
1 Rubicon #1	44.6	73.4	48.0	15
2 Hagans Meadow	20.8	21.9	19.7	15
3 Freel Bench	7.9	10.2	11.6	15
4 Ward Creek	41.9	60.9	49.5	15
5 Upper Truckee	2.7	6.0	8.0	15
6 Tahoe City	7.8	7.8	13.6	15
7 Echo Summit	36:0	51.4	41.3	13
8 Mount Rose	26.3	49.0	36.4	15
9 Donner Summit	3343	50.9	42.5	15
10 Sage Hen Creek	14.8	24.2	18.9	15
11 Truckee #2	8.0	17.6	14.5	14
12 Independence Cr	9:1	16.4	13.8	15
13 Boca #2	Ö	3.5	5.8	13
ll Independence Cp	22.4	33.8	24.1	12
15 Little Valley	0.8	4.1	10.4	11
16 Squaw Valley	48.1	83.0	•••	3

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEAS	IL I	
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL
1 Lake Tahoe 2 Boca	732 11	598 22	481	446 13*

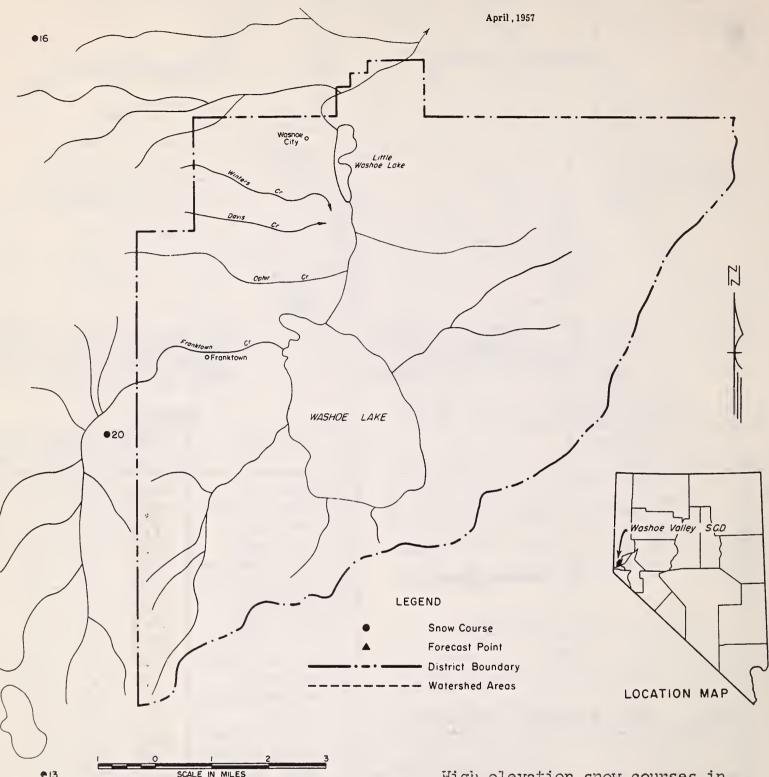
* Storage began in Dec., 1938

Assuming normal precipitation throughout the forecast period, the Truckee Basin Water Committee states, Lake Tahoe will fill to maximum elevation of 6229.1 and releases will be made to prevent exceeding that elevation. A full water supply will be available for water users who have storage rights in this system. On April 1, the water surface of Lake Tahoe was at elevation 6228.0 feet. The irrigation season flow at Truckee River at Farad is 72% of the 1938-52 15 year average, Little Truckee above Boca 85%, and the Rise of Lake Tahoe is being forecast at 75%.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USBASES PORTLAND SERVICE

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WASHOE VALLEY S.C.D., WASHOE COUNTY, NEVADA



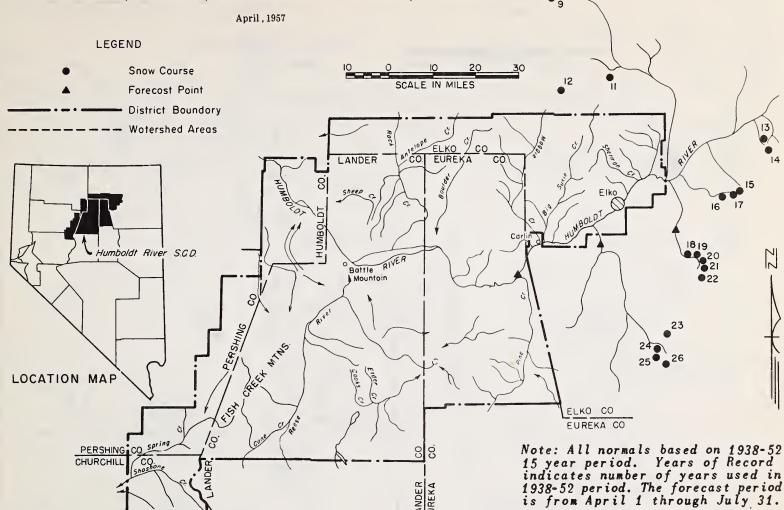
Note: All normals based on 1938-52 15 year period. Years of Record indicates number of years used in 1938-52 period. The forecast period is from April 1 through July 31.

SNOW

SNOW COURSE	WATER CONTENT . APRIL 1			YEARS OF
	THIS YEAR	LAST YEAR	NORMAL	RECORD
13 Marlette Lake 16 Mount Rose 20 Little Valley	17.6 26.3 0.8	31.5 49.0 4.1	25.2 36.4 10.4	15 15 11

High elevation snow courses in this watershed measured about 70% of the April 1 15 year 1938-52 average. Prospects are for late season shortages for water users who do not have reservoired water. Low elevation snow is practically gone as evidenced by Little Valley snow course, which had just barely enough snow to be measured.

HUMBOLDT RIVER S.C.D., CHURCHILL, ELKO, EUREKA, HUMBOLDT, LANDER, & PERSHING COUNTIES, NEVADA



APRIL - JULY RUNOFF (1.000 Ac. Ft.)

ATTIEL TODI RONOTT (1,000 AC. T.,				
FORECAST POINT	FORECAST	MEASURED		
	THIS YEAR	LAST YEAR	NORMAL	
Lamoille Crk.				
Nr. Lamoille	26	32	30	
So. Fk. Humboldt Nr. Elko	65	88	84	
Humboldt at Palisade	187	249	250	

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEASURED - APRIL 1			
1	CAPACITY	THIS YEAR	LAST YEAR	NORMAL	
Rye Patch	178	63	40	100	

Humboldt River at Palisade is being forecast at 75% of normal. Recent snow surveys reflect a much better water supply picture Snow courses north of the than last month. Humboldt River are more near average than those south of the River. U. S. Geological Survey reports ground water levels in the Battle Mountain area to be about 0.2 foot below that of last year and 0.7 foot higher than 1955. On the flood plain of the Humboldt in Elko County, the ground water level is 0.6 foot below average and 0.9 -10foot below last year.
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

23.3 2 Fox Creek 8.8 8.0 6.8 13 11.8 4 76 Creek 12.5 4 11.2 Gold Creek 5.8 7.0 12 5.9 6 Big Bend 12.5 15 10.3 9.3 7 Fry Canyon 7.2 10.2 12 6.3 8 Rodeo Flat 10.9 12 8.7 6.1 9 L. Jack Creek 0 2.7 12 3.5 6.4 10 U. Jack Creek 14.0 11.4 12 11 Tremewan Rch. 0 11 1.1 0 12 Taylor Can. 6.1 4.2 12 0 13 L. Trout Crk. Ţ 1.7 3.4 7 35.8 11 U. Trout Crk. 29.4 7 31.2 15 Dorsey Basin 10.3 14.6 16.4 11 16 Ryan Ranch 1.0 11 0 17 Dry Creek 11 2.2 2.2 1 18 Lamoille 1 9.9 11.6 10.5 10.5 19 Lamoille 2 10.3 14 9.5 14.7 14.2 14 20 Lamoille 3 14.1 23.4 20.0 21 Lamoille 4 11 21.7 22 Lamoille 5 28.5 14 35.9 32.5 16.3 23 Green Mtn. 14.0 9 15.3 24 Harrison 1 T Ť 4.2 11 T 5.7 11 25 Harrison 2 1.1 23.2 9 26 Corral Can. 20.1 17.5

SNOW

THIS YEAR

SNOW COURSE

1 Bear Creek

WATER COMTENT - APRIL 1

LAST YEAR

23.1

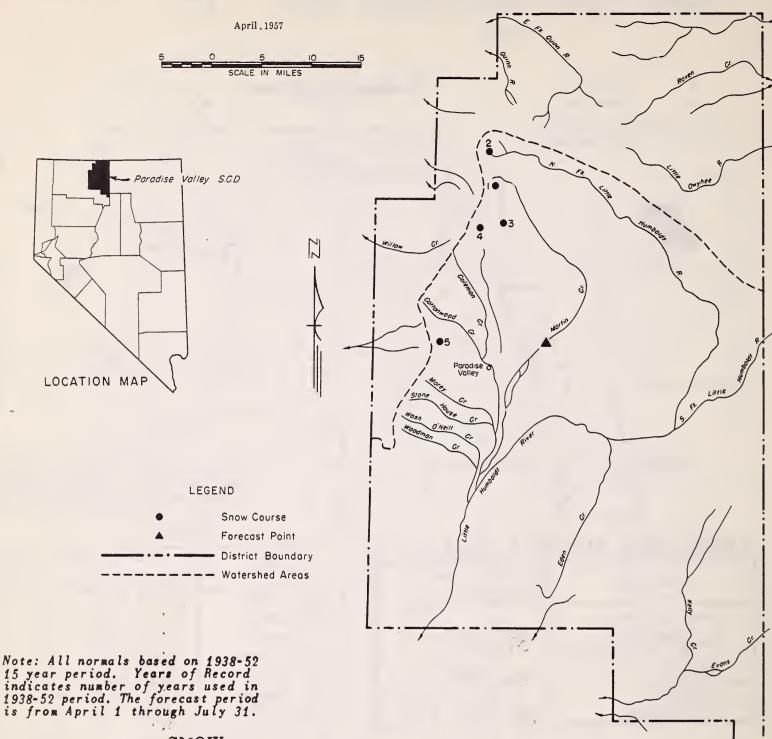
YEARS

RECORD

10

21.8

PARADISE VALLEY S.C.D., HUMBOLDT COUNTY, NEVADA



indicates number of years used in 1938-52 period. The forecast period is from April 1 through July 31.

.SNOW

SNOW COURSE	WATER CONTENT - APRIL 1			YEARS OF
	THIS YEAR	LAST YEAR	NORMAL	RECORD
1 L. Buckskin 2 U. Buckskin 3 Martin Cr. 4 Granite Pk. 5 Lamance Cr. Midas	8.4 12.8 8.4 17.5 10.1	8.4 4.0 9.1 14.5 8.2	8.7 10.5 8.2 11.8 9.8	11 14 11 11 8

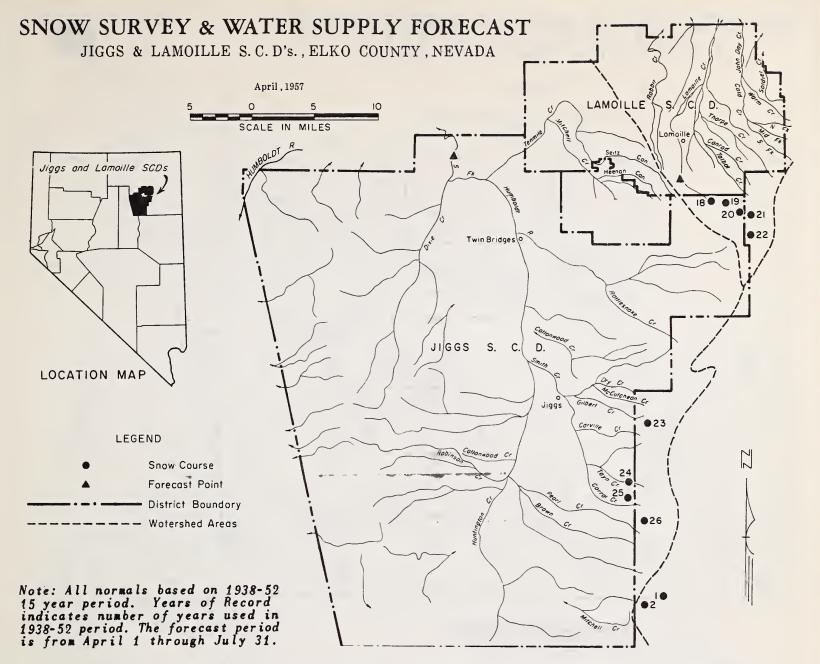
APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST	MEAS	SURED
3	THIS YEAR	LAST YEAR	NORMAL
Martin Creek			
near Paradise Valley	18	17	18
Humboldt River at Palisade	187	249	250

Storms in the Santa Rosa Mountains during March have revised the below normal outlook last month to a forecast on Martin Creek of 18,000 acre feet or a normal April-July flow. Surveyors report the mountain soil . mantle to be wet beneath the snowpack. The U. S. Geological Survey reports Paradise Valley ground water levels to be well above normal and only slightly below last years measurements. Range conditions should be good if normal spring precipitation continues.

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M-1087



SNOW

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

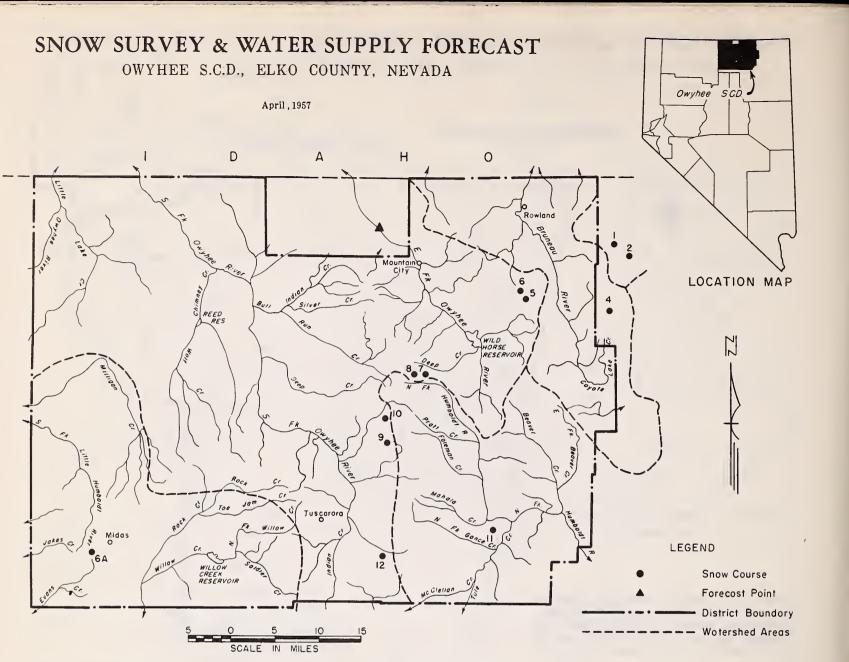
SNOW COURSE	WATER CONTENT APRIL 1 INCHES			YEARS OF
	THIS YEAR	LAST YEAR	NORMAL	RECORD
18 Lamoille 1 19 Lamoille 2 20 Lamoille 3 21 Lamoille 4 22 Lamoille 5 23 Green Mtn. 24 Harrison 1 25 Harrison 2 26 Corral Can. 1 Cave Creek 2 Hager Can.	10.5 9.5 14.1 21.7 32.5 15.3 T 1.1 17.5		9.9 10.6 14.2 20.0 28.5 14.0 4.2 5.7 20.1 16.5 21.6	11 11 11 11 11 11 11 11 11

FORECAST POINT	FORECAST	MEAS	URED
	THIS YEAR	LAST YEAR	NORMAL
S. Fk. Humboldt River (near Elko)	65	88	84
Lamoille Creek (near Lamoille)	26	32	30
Humboldt River (at Palisade)	187	249	250

STORAGE (1,000 Ac. Ft.)

RESERVOIR -	USABLE	MEASURED - APRIL 1			
·	CAPACITY	THIS YEAR	LAST YEAR	NORMAL	
Rye Patch	178	63	40	100	

April 1 snow surveys in the Ruby Mountains indicate improvement over surveys made last month. April through July forecasts for Lamoille Creek 87% of normal, South Fork Humboldt 77% and Humboldt at Palisade 75%. According to U. S. Geological Survey, ground water measurements in Lamoille Valley are near normal and about 1 foot lower than last year. If spring precipitation continues, range conditions should be good.



SNOW

SNOW COURSE	WATER	WATER CONTENT - APRIL 1				
	THIS YEAR	LAST YEAR	NORMAL	RECORD		
1 Bear Greek	23.3	23.1	21.8	10		
2 Fox Creek	8.0	6.8	8.8	13		
4 76 Creek	11.2	11.8	12.5	1		
5 Gold Creek	5•9	5.8	7.0	12		
6 Big Bend	9.3	12.5	10.3	15		
7 Fry Canyon	6.8	7.2	10.2	12		
8 Rodeo Flat	8.7	6.1	10.9	12		
9 L. Jack Creek	3.5	0	2.7	12		
10 U. Jack Creek	14.0	6.4	11.4	12		
ll Tremewan	0	0	1.1	11		
12 Taylor Canyon	0	6.1	4.2	12		
6a Midas	T	0	2.1	11		

Note: All normals based on 1938-52 15 year period. Years of Record indicates number of years used in 1938-52 period. The forecast period is from April 1 through July 31.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST	MEASURED		
	THIS YEAR	LAST YEAR	NORMAL	
l Owyhee River near Owyhee	70	75	88	
Owyhee River near Gold Creek	21	23	28	

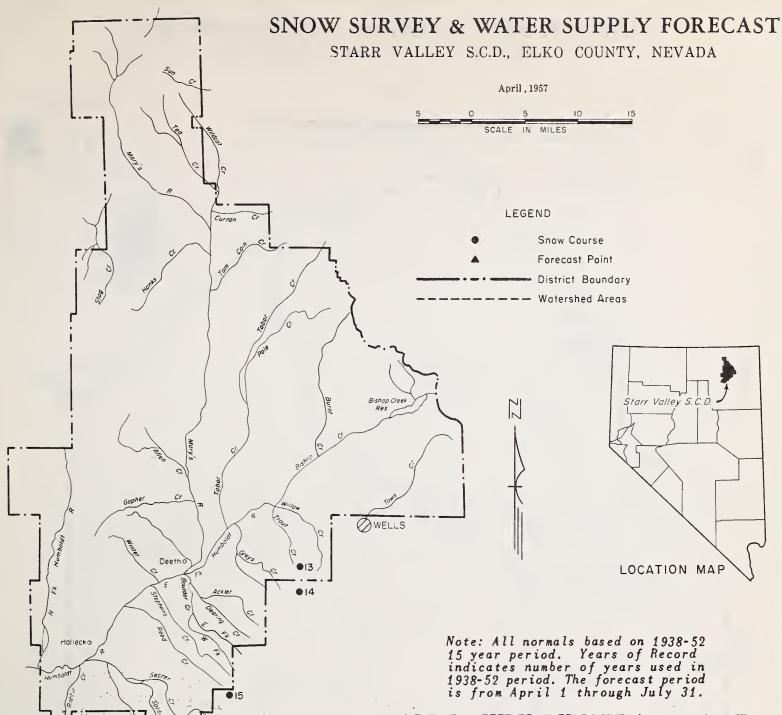
STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEASURED - APRIL 1				
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL		
l Wildhorse	33	30	10	, 14		

High elevation snow water has improved to about 82% of the April 1, 1938-52 15-yr. normal. Jack Creek watershed snow courses measured above last year and above normal. Soil moisture stations at Taylor Canyon, Lower Jack Creek and Rodeo Flat indicated the top 4-foot soil mantle to be saturated. Forecasts, corrected for changes in Wild Horse Reservoir, on the Owyhee River near Gold Creek and near Owyhee are forecasted to flow 75% and 80%, respectively, during April-July. Other water users can expect about the same flow. Wild Horse Reservoir is 91% of capacity and will spill in a few weeks.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE UNDER SOUTH AND AGRICULTURE

M- 1096



APRIL - JULY RUNOFF (1,000 Ac. Ft.)

		,	* ,		
	FORECAST POINT	FORECAST	MEASURED		
-	* ·	THIS YEAR	LAST YEAR	NORMAL	
	l Lamoille (near Lamoille)	26	11. 32	30	
	2 Humboldt River (at Palisade)	187-	24.9	250	

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEASURED - APRIL 1			
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL	
l Rye Patch	178	63::	40	100	

13 L. Trout Crk. T 1.7 3.4 14 U. Trout Crk. 35.8 7 29.4 31.2 15 Dorsey Basin 16.4 10.3 14.6 11 16 Ryan Ranch 1.0 1.3 11 0 17 Dry Creek 2.2 4.8 11 2.2 11.8 4 11.2 12.5 76-Creek 23.3 23.1 Bear Crk. Mdw. 21.9 10

SNOW

THIS YEAR

SNOW COURSE

WATER CONTENT - APRIL 1

LAST YEAR

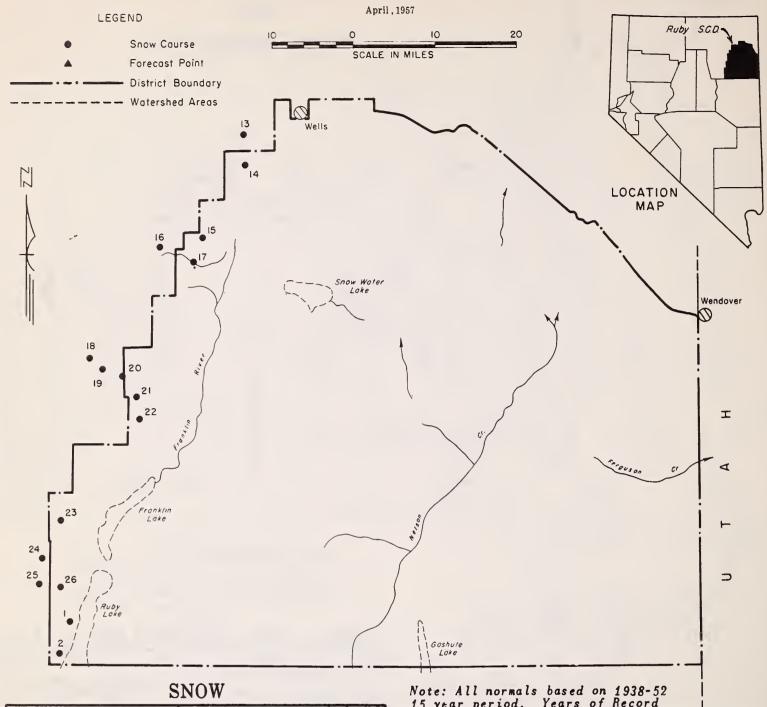
Recent March storms in the higher elevations have greatly improved the irrigation season water prospects. Lamoille Creek is being forecast at 87 percent of normal and Humboldt at Palisade 75% of normal. The South Fork Humboldt near Elko is forecast at 77% of normal. Marys River and other northern feeders can be expected to flow better than the southern feeders. The snowpack north of the Humboldt River is more near average than the snowpack in the Ruby Mountains.

YEARS

RECORD

NORMAL

RUBY S.C.D., ELKO COUNTY, NEVADA



SNOW COURSE NO. AND NAME	WATER C		PRIL 1	YEARS		
		WATER CONTENT - APRIL 1 INCHES				
	THIS YEAR	L'AST YEAR	NORMAL	RECORD		
13 L. Frout Crk. 14 U. Trout Crk. 15 Dorsey Basin 16 Ryan Ranch 17 Dry Creek 18 Lamoille I 19 Lamoille 2 20 Lamoille 3 21 Lamoille 4 22 Lamoille 5 23 Green Mtn. 24 Harrison 1 25 Harrison 2 26 Corral Can. 1 Cave Creek 2 Hager Can.	T 31.2 10.3 0 2.2 10.5 9.5 14.1 21.7 32.5 15.3 T 1.1 17.5	1.7 35.8 14.6 1.0 2.2 11.6 10.3 14.7 23.4 35.9 16.3 T	3.4 29.4 16.4 1.3	7 7 11 11 11 11 11 11 11 11 11 11 11 11		

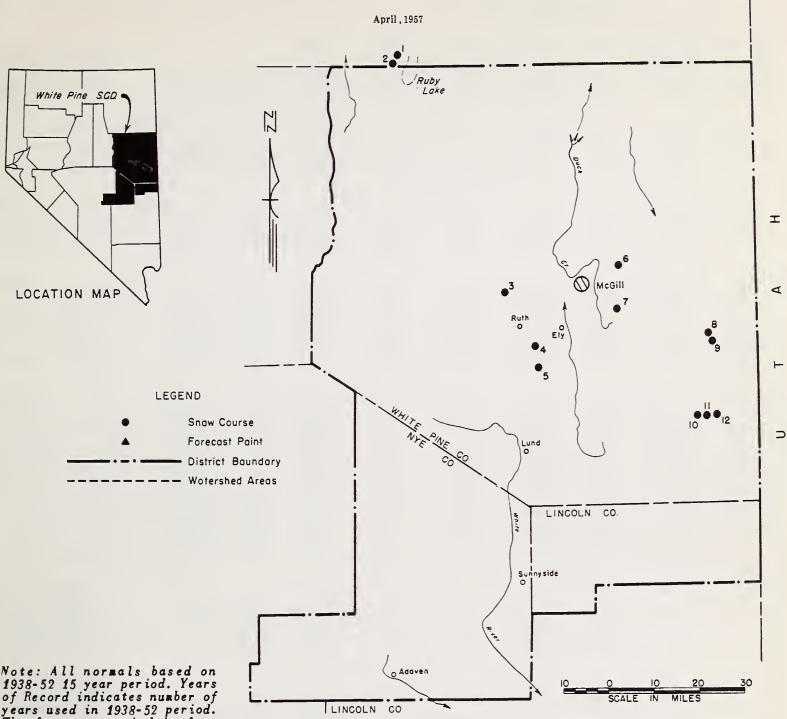
Note: All normals based on 1938-52 15 year period. Years of Record indicates number of years used in 1938-52 period. The forecast period is from April 1 through July 31.

Streams fed by high mountain snowpack will flow near normal this irrigation season, but slightly less than last year. March storms have improved the snowpack in the Ruby Mountains. Streamflow forecasts in Lamoille Valley and main Humboldt are ranging from 87 to 75 percent of the 15 year 1938-52 average. Mountain soils are saturated and if spring precipitation continues normal, range conditions should be good.

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WHITE PINE S.C.D., WHITE PINE, LINCOLN & NYE COUNTIES, NEVADA



Note: All normals based on 1938-52 15 year period. Years of Record indicates number of years used in 1938-52 period. The forecast period is from April 1 through July 31.

SNOW

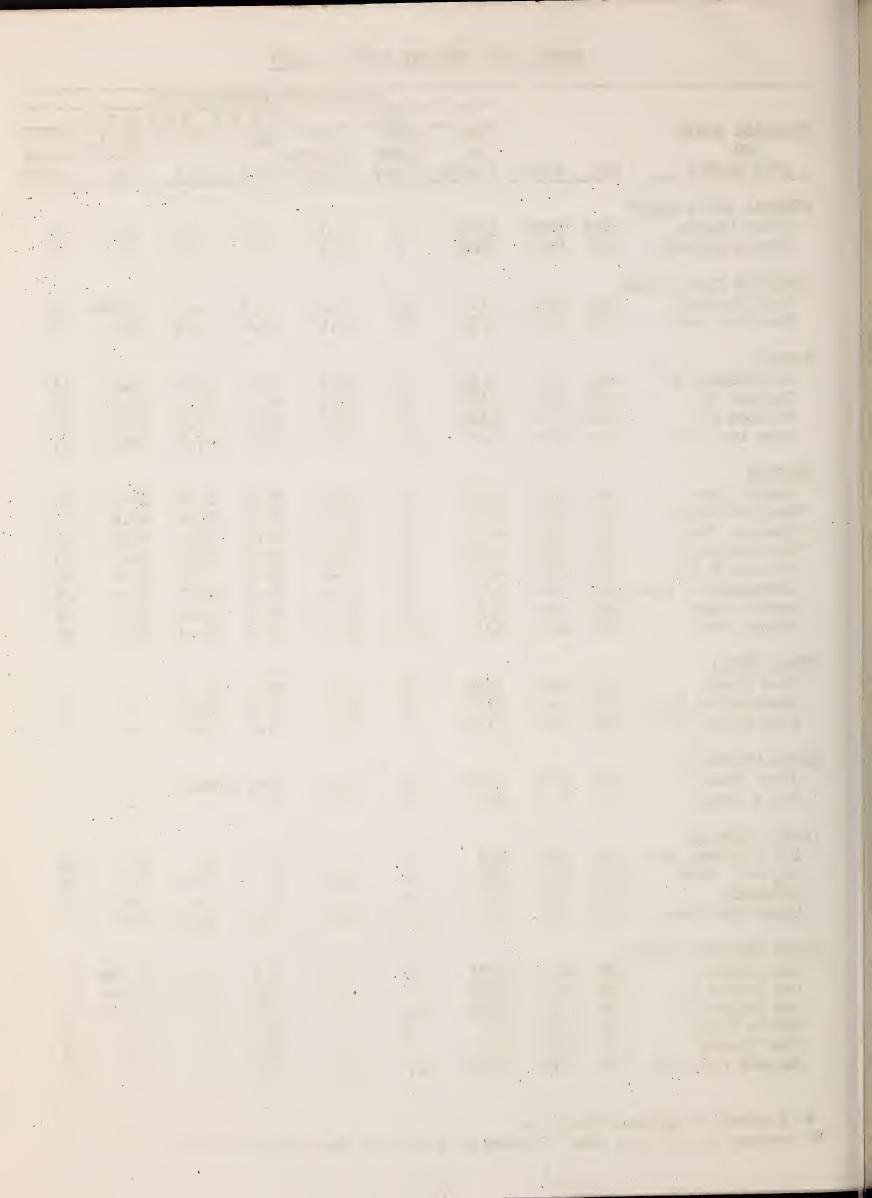
BNOW								
SNOW COURSE	WATER	WATER CONTENT - APRIL I						
	THIS YEAR	LAST YEAR	NORMAL	RECORD				
1 Cave Creek	-	12.2	16.4	12				
2 Hager Canyon	•	25.5	21.6	12				
3 Robinson Summi	t o	0	4.7	3				
4 Murray Summit	0	0	3.4	14				
5 Ward Mtn. #2	8.5	(Ne	se)					
6 Bird Creek	0	T	5.1	5				
7 Berry Creek	12.4	17.9	18.5	5				
8 Silver Crk. #	1 0	(Ne	se)					
9 Silver Crk. #	2 4.9	(Ner	w Cour	se)				
10 Baker Crk. #3	12.9	21.1	20.6	11				
11 Baker Crk. #2	10.0	21.1	18.8	11				
12 Baker Crk. #1	4.2	5.5	6.2	12				

Recently completed snow surveys in this portion of Nevada indicate extremely poor snow pack conditions. The Baker Creek courses averaged only 60% of the 15 year 1938-52 average. Berry Creek measured 67% of average. Prospects are for shortages to occur for those who do not have storage to carry them through the irrigation season. Snow Surveyors report the ground to be only damp under the high mountain snowpack. The ground must be saturated before appreciable runoff occurs.

	-				NOW COVE				
DRAINAGE BASIN			Date	1957 Snow	Water	:Pas :Water		cord	Prior
AND			of	Depth	Content	Dir STORM on other records	Contoen	1938-52	Yrs.of
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1956	1955	Avg.	Record
CENTRAL GREAT BASIN Clark Canyon Trough Springs	15N2 15N1	9000 8500	3/26 3/28	8	3.7 1.2	0.8 T	6.1 3.9	9.8 7.0	12
NORTHERN GREAT BASI Bald Mountain Disaster Peak	19Hl 19Hl	6720 6500	4/1 3/31	5 22	1.2 9.6	2.8	4.0 6.5	3.4 ** 17.2	17 8
TAHOE Richardsons #2 Rubicon #2 Rubicon #3 Lake Lucille	2013 2013 2013	6500 7500 6700 8400	3/30 3/28 3/28 4/7	38 70 50 131	15.2 30.6 18.6 53.0	19.2 40.3 24.9 83.0	11.6 22.5 15.6 47.8	18.6 31.6 21.8 64.5	13 38 16 43
TRUCKEE Donner Lake *Fordyce Lake *Furnace Flat *Soda Springs Truckee R.S. Independence Lake Webber Lake Webber Peak	20K11 20K7 20K8 20K9 20K12 20K5 20K2	6500 6600 6750	3/27 4/2 4/2 3/27 4/1 4/3 4/1 4/1	3 ⁴ 74 93 69 9 93 71 102	15.3 34.2 43.5 33.8 2.9 35.4 30.5 41.9	23.2 53.4 64.9 53.0 12.6 62.6 44.8 76.5	14.8 32.0 36.1 28.4 6.3 28.7 23.6 34.0	2½·3 42·2 48·6 38·7 12·0 43·3 36·0 45·5	13 39 37 28 12 20 32 35
SNAKE RIVER Goat Creek Hummingbird Sprgs Pole Creek R.S.		8945	3/29 3/29 3/29	57 70 61	18.4 22.1 19.2	25.3 29.5 23.7	14.0 17.2 16.8	- - -	2 2 2
UPPER HUMBOLDT Jacks Peak Susie Creek	16H4 15H16		3/27 3/27	91 0	31.5	New 0	Course	-	1
LOWER HUMBOLDT Big Crk.Camp Grd. Big Crk. Mine Golconda Upper Big Creek	17K1 17K2 17J1 17K3	6600 7600 6000 7800	4/2 4/2 4/3 4/2	0 12 0 22	0 3.4 0 8.5	0 0 0 4.0	0 3.5 8.8	2.1 4.0 8.9	15 13 1 13
LOWER COLORADO RIVER Kyle Canyon Lee Canyon #1 Lee Canyon #2 Mathew Canyon Pine Canyon Rainbow Canyon#2	R 15N5 15N4 15N3 14M1 14M2 15N7	8200 8300 9000 6000 6200 81 0 0	3/27 3/26 3/26 4/1 4/2 3/27	10 4 12. 0 0 27	4.5 2.5 5.0 0 0 12.6	1.8 1.5 2.9 0 0	7.5 5.8 6.6 0 0	11.4** 10.4** 12.0** 0.9 1.6 16.8	15 16 15 8 8

^{*} Located on adjacent drainage

^{**} Average is for less than 15 years of record in the 1938-52 period.



Agencies Cooperating in Collecting Data Contained in this Bulletin

FÉDERAL

Soil Conservation Service
Forest Service
Geological Survey
Bureau of Reclamation
Fish and Wildlife Service
Army
Navy
Air Force
Weather Bureau
Agricultural Research Service

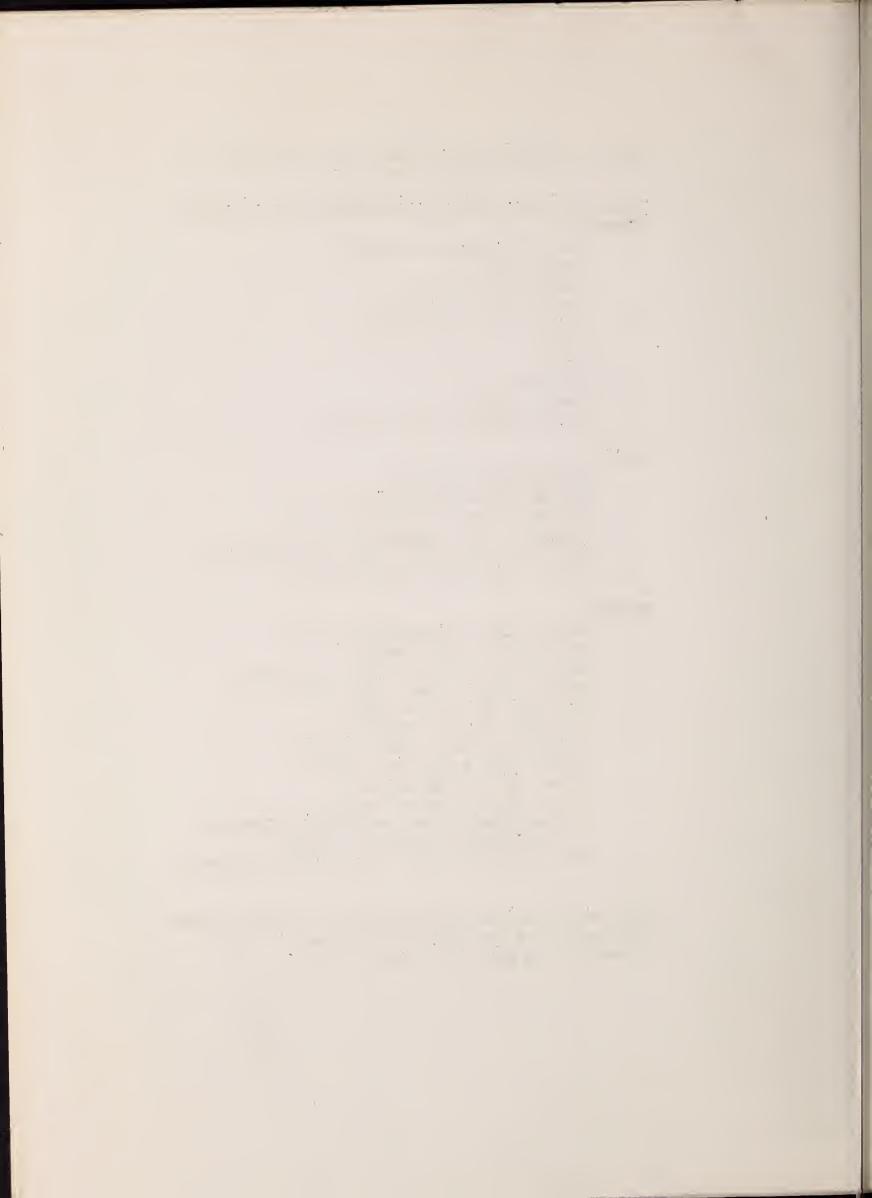
STATE

Nevada State Engineer
Nevada State Forester-Firewarden
Nevada Cooperative Snow Surveys
Colorado River Commission of Nevada
California Department of Water Resources
Oregon Cooperative Snow Surveys

PRIVATE

Walker River Irrigation District
Amalgamated Sugar Company
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Virginia City Water Company
Kennecott Copper Corporation
Squaw Valley Development Company
Pacific Gas & Electric Company
Nevada Irrigation District
Sierra Pacific Power Company
Washoe County Water Conservation District
Truckee-Carson Irrigation District
Pershing County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.





Federal - State - Private COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"